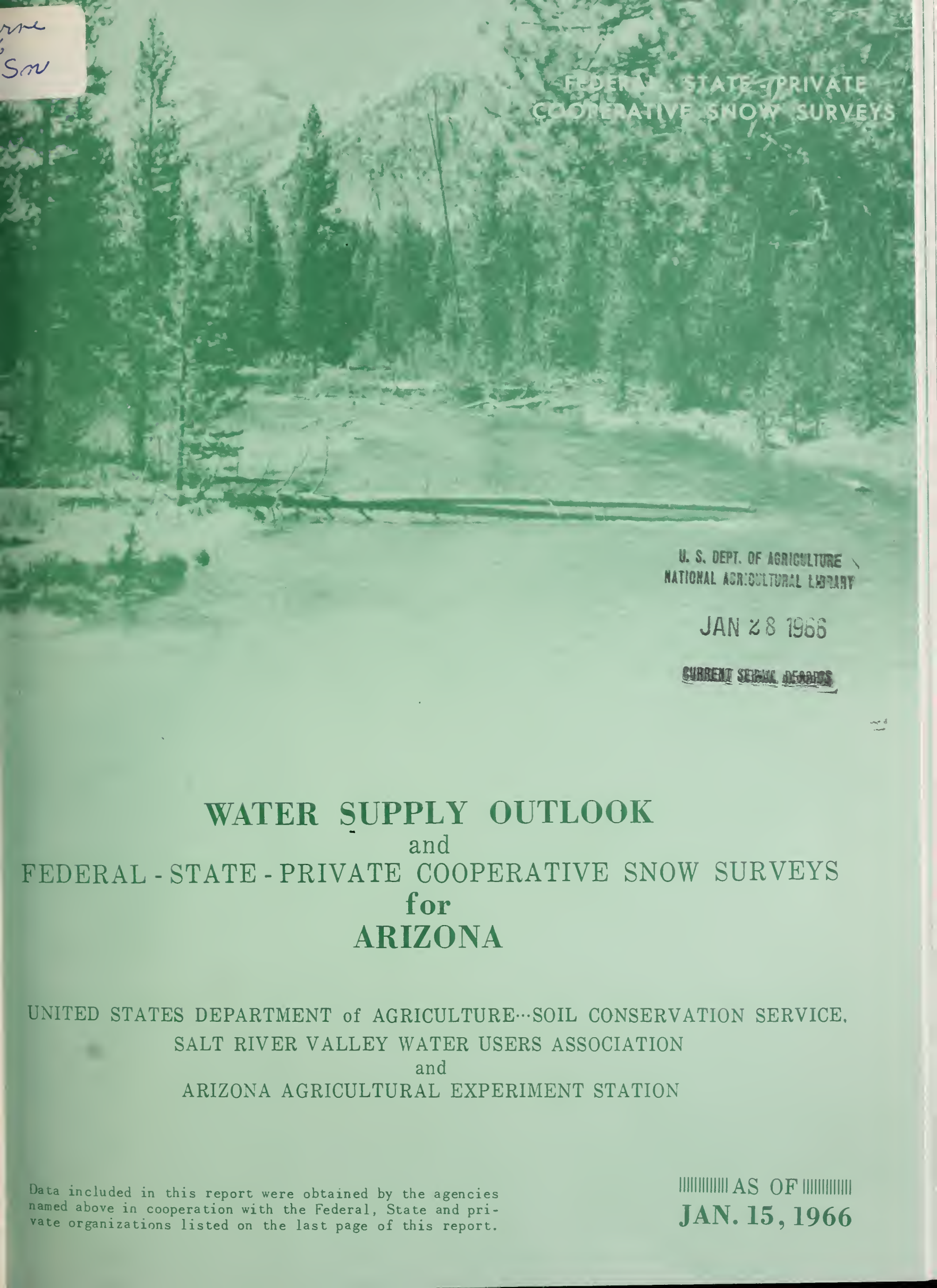


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Snow

FEDERAL - STATE - PRIVATE
COOPERATIVE SNOW SURVEYS

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JAN 28 1966

CURRENT SERIAL RECORDS

WATER SUPPLY OUTLOOK
and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS
for
ARIZONA

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE,
SALT RIVER VALLEY WATER USERS ASSOCIATION
and
ARIZONA AGRICULTURAL EXPERIMENT STATION

Data included in this report were obtained by the agencies
named above in cooperation with the Federal, State and pri-
vate organizations listed on the last page of this report.

||||||| AS OF |||||
JAN. 15, 1966

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

To Recipients of Water Supply Outlook Reports:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season as they affect runoff will add to be an effective average. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1400 snow courses in Western United States and in the Columbia Basin in British Columbia. In the near future, it is anticipated that automatic snow water equivalent sensing devices along with radio telemetry will provide a continuous record of snow water equivalent at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

Listed below are water supply outlook reports based on Federal-State-Private Cooperative snow surveys. Those published by the Soil Conservation Service may be obtained from Soil Conservation Service, Room 507, Federal Building, 701 N. W. Glisan, Portland, Oregon 97209.

PUBLISHED BY SOIL CONSERVATION SERVICE

<u>REPORTS</u>	<u>ISSUED</u>	<u>LOCATION</u>	<u>COOPERATING WITH</u>
RIVER BASINS			
WESTERN UNITED STATES _____	MONTHLY (FEB.-MAY) _____	PORTLAND, OREGON _____	ALL COOPERATORS
BASIC DATA SUMMARY _____	OCTOBER 1 _____	PORTLAND, OREGON _____	ALL COOPERATORS
STATES			
ALASKA _____	MONTHLY (MAR.-MAY) _____	PALMER, ALASKA _____	ALASKA S.C.D.
ARIZONA _____	SEMI-MONTHLY (JAN.15 - APR.1) _____	PHOENIX, ARIZONA _____	SALT R. VALLEY WATER USERS ASSOC. ARIZ. AGR. EXP. STATION
COLORADO AND NEW MEXICO _____	MONTHLY (FEB.-MAY) _____	FORT COLLINS, COLORADO _____	COLO. STATE UNIVERSITY COLO. STATE ENGINEER N. MEX. STATE ENGINEER
IDAHO _____	MONTHLY (JAN.-JUNE) _____	BOISE, IDAHO _____	IDAHO STATE RECLAMATION ENGINEER
MONTANA _____	MONTHLY (JAN.-JUNE) _____	BOZEMAN, MONTANA _____	MONT. AGR. EXP. STATION
NEVADA _____	MONTHLY (JAN.-MAY) _____	RENO, NEVADA _____	NEVADA DEPT. OF CONSERVATION AND NATURAL RESOURCES - DIVISION OF WATER RESOURCES
OREGON _____	MONTHLY (JAN.-JUNE) _____	PORTLAND, OREGON _____	OREG. STATE UNIVERSITY OREGON STATE ENGINEER
UTAH _____	MONTHLY (JAN.-JUNE) _____	SALT LAKE CITY, UTAH _____	UTAH STATE ENGINEER
WASHINGTON _____	MONTHLY (FEB.-JUNE) _____	SPOKANE, WASHINGTON _____	WN. STATE DEPT. OF CONSERVATION
WYOMING _____	MONTHLY (FEB.-JUNE) _____	CASPER, WYOMING _____	WYOMING STATE ENGINEER

PUBLISHED BY OTHER AGENCIES

<u>REPORTS</u>	<u>ISSUED</u>	<u>AGENCY</u>
BRITISH COLUMBIA _____	MONTHLY (FEB.-JUNE) _____	WATER RESOURCES SERVICE, DEPT. OF LANDS, FOREST AND WATER RESOURCES, PARLIAMENT BLDG., VICTORIA, B.C., CANADA
CALIFORNIA _____	MONTHLY (FEB.-MAY) _____	CALIF. DEPT. OF WATER RESOURCES, P.O. BOX 388, SACRAMENTO, CALIF.

WATER SUPPLY OUTLOOK
and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS
for
ARIZONA

(Salt, Verde, Gila and Part of Lower Colorado River Basin)

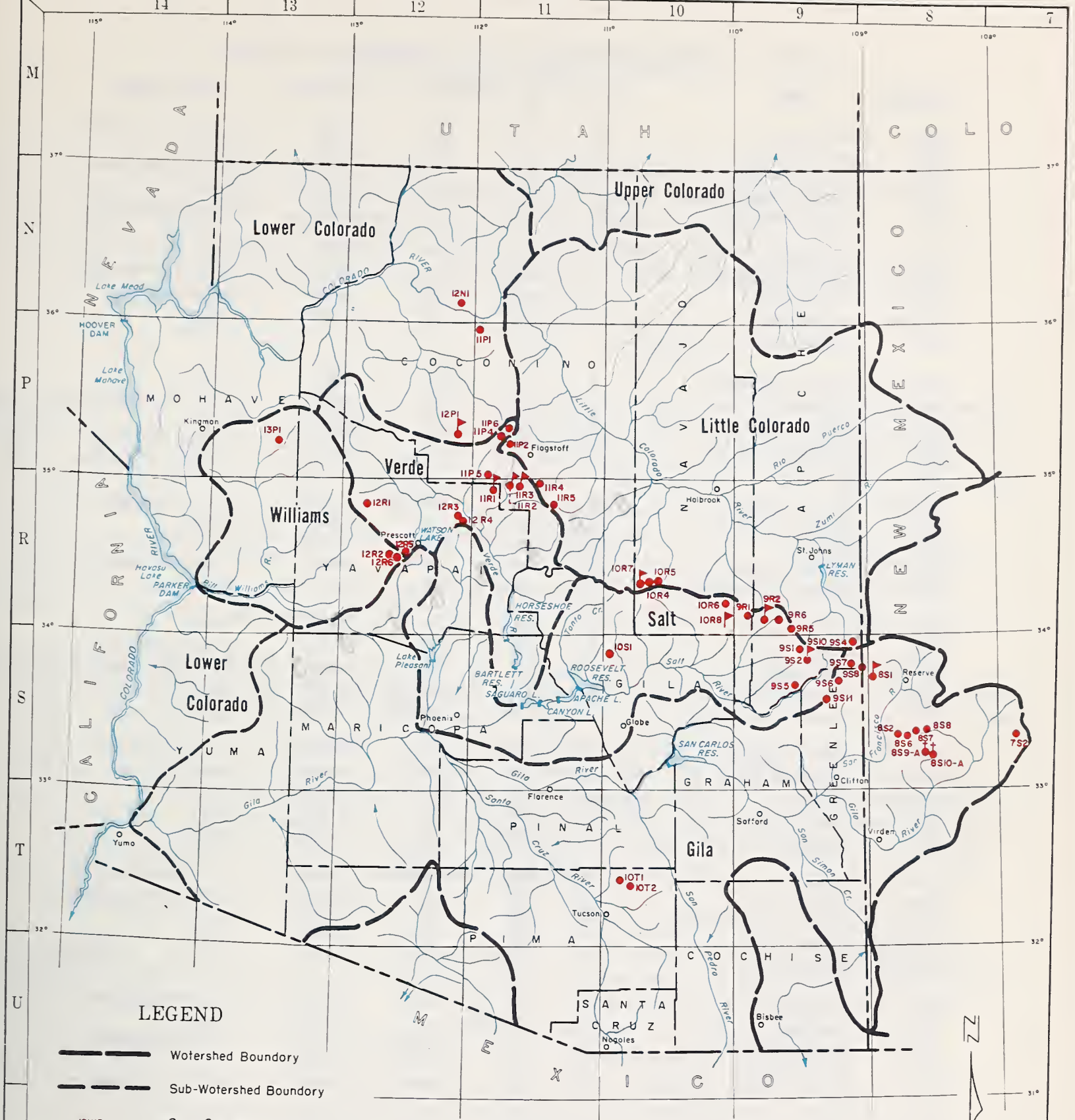
Report prepared by

RICHARD W. ENZ...SNOW SURVEY SUPERVISOR
SOIL CONSERVATION SERVICE
ROOM 6029 FEDERAL BUILDING
PHOENIX, ARIZONA 85025

Issued by

MERRITT D. BURDICK
STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE

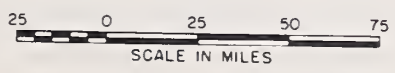
VICTOR I. CORBELL
PRESIDENT,
SALT RIVER VALLEY WATER USERS ASSOCIATION



LEGEND

- Watershed Boundary
- Sub-Watershed Boundary
- 13U10 Snow Course
- ▲ 13U9 Snow Course and Soil Moisture Station
- ▶ 13U8 Soil Moisture Station Only
- † 13U8 Aerial Marker

ARIZONA
COOPERATIVE SNOW SURVEYS
 Snow Courses and Sub-Watersheds



INDEX to SNOW COURSES and SOIL MOISTURE STATIONS

Number**	Name	Sec	Twp	Rge***	Elevation	River Basin
9S1	Baldy (p)	28	7N	27E	9125	Little Colorado
10T1	Bear Wallow	6	12S	16E	8100	Gila
9S6	Beaver Head	13	4N	30E	8000	San Francisco
9S10-*	Black River Divide	10	6N	27E	9400	Salt
12N1	Bright Angel	34	33N	3E	8400	Lower Colorado
12R1	Camp Wood	3	16N	6W	5700	Verde
10R7-M	Canyon Creek #2	18	11N	15E	7500	Little Colorado
11R2-M	Casner Park	19	18N	8E	6930	Verde
12P1-M	Chalender	27	22N	3E	7100	Verde
12R6	Copper Basin Divide (p)	23	13N	3W	6720	Verde
10R8 -*	Corduroy Creek	4	8N	21E	6000	Salt
9S7	Coronado Trail	26	5N	30E	8000	San Francisco
10R6	Forest Dale	2	9N	21E	6430	Salt
11P2	Fort Valley (p)	22	22N	6E	7350	Little Colorado
9R5	Ft. Apache	18	7N	27E	9160	Little Colorado
8S1-M	Frisco Divide	31	6S	20W****	8000	San Francisco
12R4	Gaddes Canyon	11	15N	2E	7600	Verde
10R5	Gentry	36	11N	15E	7650	Salt
11P1	Grand Canyon	21	30N	4E	7500	Lower Colorado
9S11	Hannagan Meadows (p)	19	3N	29E	9090	Salt
11R5	Happy Jack	30	17N	9E	7630	Verde
10R4	Heber (p)	28	11N	15E	7600	Little Colorado
8S9-A	Hummingbird	19	11S	17E	10550	San Francisco
8S6	Ice King	6	11S	18W****	8020	San Francisco
7S2	Inman	6	11S	10W****	7800	Gila
12R2	Iron Springs	22	14N	3W	6200	Bill Williams
9S2	Maverick Fork (p)	13	6N	27E	9150	Salt
9R2-M	McNary	23	8N	23E	7200	Salt
9R1	Milk Ranch	33	8N	23E	7000	Salt
12R3	Mingus Mountain	3	15N	2E	7100	Verde
8S2	Mogollon	2	11S	19W****	7000	San Francisco
11R4	Mormon Lake	13	18N	8E	7350	Little Colorado
11R3-M	Mormon Mountain (p)	14	18N	8E	7500	Verde
11R1-M	Munds Park	7	18N	7E	6500	Verde
11P5-M	Newman Park	25	19N	6E	6750	Verde
9S4	Nutriso	23	6N	30E	8500	San Francisco
9S5	Pacheta	27	4-1/2N	27E	7800	Salt
8S7	Redstone Trail	5	11S	18W****	8600	San Francisco
10T2	Rose Canyon	15	12S	16E	7300	Gila
8S8	Silver Creek Divide	4	11S	18W****	9000	San Francisco
11P4	Snow Bowl #1 (p)	36	23N	6E	10260	Verde
11P6	Snow Bowl #2	31	23N	7E	11000	Verde
9S8	State Line	6	6S	21W****	8000	San Francisco
12R5	White Spar	19	13N	2W	6000	Verde
8S10-A	Whitewater	19	11S	17E	10750	Gila
13P1	Willow Ranch	16	21N	11W	5000	Bill Williams
9R6	Wilson Lake	4	7N	26E	9000	Salt
10S1	Workman Creek	33	6N	14E	6900	Salt

* SOIL MOISTURE STATION ONLY

** NUMBER INDICATES LOCATION OF SNOW COURSE WITHIN COORDINATE RECTANGLE.
THUS 9N1 IS COURSE #1 IN COORDINATE RECTANGLE 9N.

*** ALL IN GILA AND SALT RIVER BASE AND MERIDIAN EXCEPT WHERE OTHERWISE
INDICATED.

**** NEW MEXICO PRINCIPAL MERIDIAN

M SOIL MOISTURE STATION INSTALLED ON OR IN VICINITY OF SNOW COURSE.

(p) STORAGE GAGE INSTALLED ON OR IN VICINITY OF SNOW COURSE.

A AERIAL SNOW DEPTH GAGE

ARIZONA WATER SUPPLY OUTLOOK
JANUARY 15, 1966

* * * * *
* The 1966 Water Supply Outlook for Arizona is the best since 1941. *
* Extremely heavy runoff in December has filled most reservoirs to *
* near capacity. Snow cover ranges from 137% of average on the *
* Verde Watershed to 313% on the Gila Watershed. Above normal run- *
* off is anticipated even if precipitation is near normal the rest *
* of the season. *
* * * * *

SNOW COVER: A few stations in the White Mountains reported all-time high measurements of snow, but on the whole snow cover is not as heavy as it was in 1962 or 1952. On the Verde watershed much of the early heavy snow pack melted leaving a water equivalent of only 37% above average. Snow cover on the Gila watershed is three times average mainly due to the extremely heavy snow cover in the Alpine-Luna area. Several snow courses there measured over four times the average amount for this date. Snow pack on the Salt River watershed is twice normal for this date. A snow depth of 88" was measured at the aerial snow marker on Mt. Ord by James Sparks, of White Mountain Recreation Enterprises.

RESERVOIR STORAGE: Salt River Project Reservoirs have been drawn down to 1,825,000 acre feet or 88% of capacity to provide flood protection to the lower reaches of the Salt River in the Phoenix area. Filling the reservoirs with the spring runoff is well assured. San Carlos Reservoir although only 30% of capacity is 832% of average. This is the most water in storage on this date since 1943. Lake Pleasant presently full has never contained this much water on January 15; it was last full in April 1941. Numerous other reservoirs such as Watson, Willow, Lake Mary, Daggs, and Show Low Lake are also full. Lyman Reservoir, however, is 63% of capacity and 294% of average. Late spring runoff will increase this greatly.

PRECIPITATION: Extremely heavy precipitation has occurred during November and December on the major watersheds of Arizona. Storage gages indicate precipitation of 2 to 3 times average. Over 15" was reported at many stations since November 1, on the Verde, Salt, and Gila watersheds. The greatest amount reported was 25.19" at Workman Creek in the Sierra Ancha Mountains. Paul Kangieser, State Climatologist of the U. S. Weather Bureau, reports all stations received above average precipitation with departures ranging from 1 to 7-1/2 inches during the month of December. Payson received 4 times the average amount of precipitation during December.

SOIL MOISTURE: Soil Moisture is very high with many stations indicating moisture levels above field capacity.

STREAMFLOW AND WATER SUPPLY: December streamflow on the Verde, Salt, and Gila Rivers ranged from 11 to 16 times the 1948-62 Fifteen-year average. The Salt River Project streams produced 849,000 acre feet while the Gila River flowed 225,000 acre feet at Safford.

Water supplies will be abundant in all areas of Arizona obtaining water from surface runoff. A very minimum amount of supplemental pumping will be required.

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STATUS OF ARIZONA RESERVOIR STORAGE - ABOUT JANUARY 15, 1966

SUB- WATERSHED and/or STREAM	RESERVOIR	USABLE CAPACITY 1000's ACRE FT.	USABLE STORAGE - 1000s ACRE FEET			
			1966	1965	1964	15-Year Average 1948-62
<u>GILA RIVER DRAINAGE</u>						
Agua Fria	Lake Pleasant	157.6	157.4	19.9	13.3	26.9
Granite	Watson Lake	4.7	4.7	2.1	3.8	---
Gila	San Carlos	1,206.0	357.7	47.7	60.8	43.0
Verde	Bartlett	179.5	153.3	42.5	9.9	48.0
Verde	Horseshoe	142.8	118.5	50.3	8.2	20.0
Salt	Roosevelt	1,382.0	1,209.5	374.4	435.5	385.1
Salt	Apache	245.0	238.7	221.8	238.6	187.6
Salt	Canyon	58.0	53.8	37.6	51.7	43.1
Salt	Saguaro	70.0	50.8	55.7	55.5	42.2
<u>COLORADO RIVER DRAINAGE</u>						
Colorado	Lake Havasu	619.4	546.3	543.2	523.3	546.9
Colorado	Lake Mohave	1,810.0	1,793.0	1,681.0	1,619.0	1,595.7*
Colorado	Lake Mead	27,207.0	15,338.0	11,182.0	15,741.0	17,704.7
Colorado	Lake Powell	25,002.0	8,865.3	6,215.0	3,037.0	---
Little Colo.	Lyman	30.6	19.4	9.4	9.6	6.6
Little Colo.	Show Low Lake	5.1	5.1	3.3	0.8	0.7*

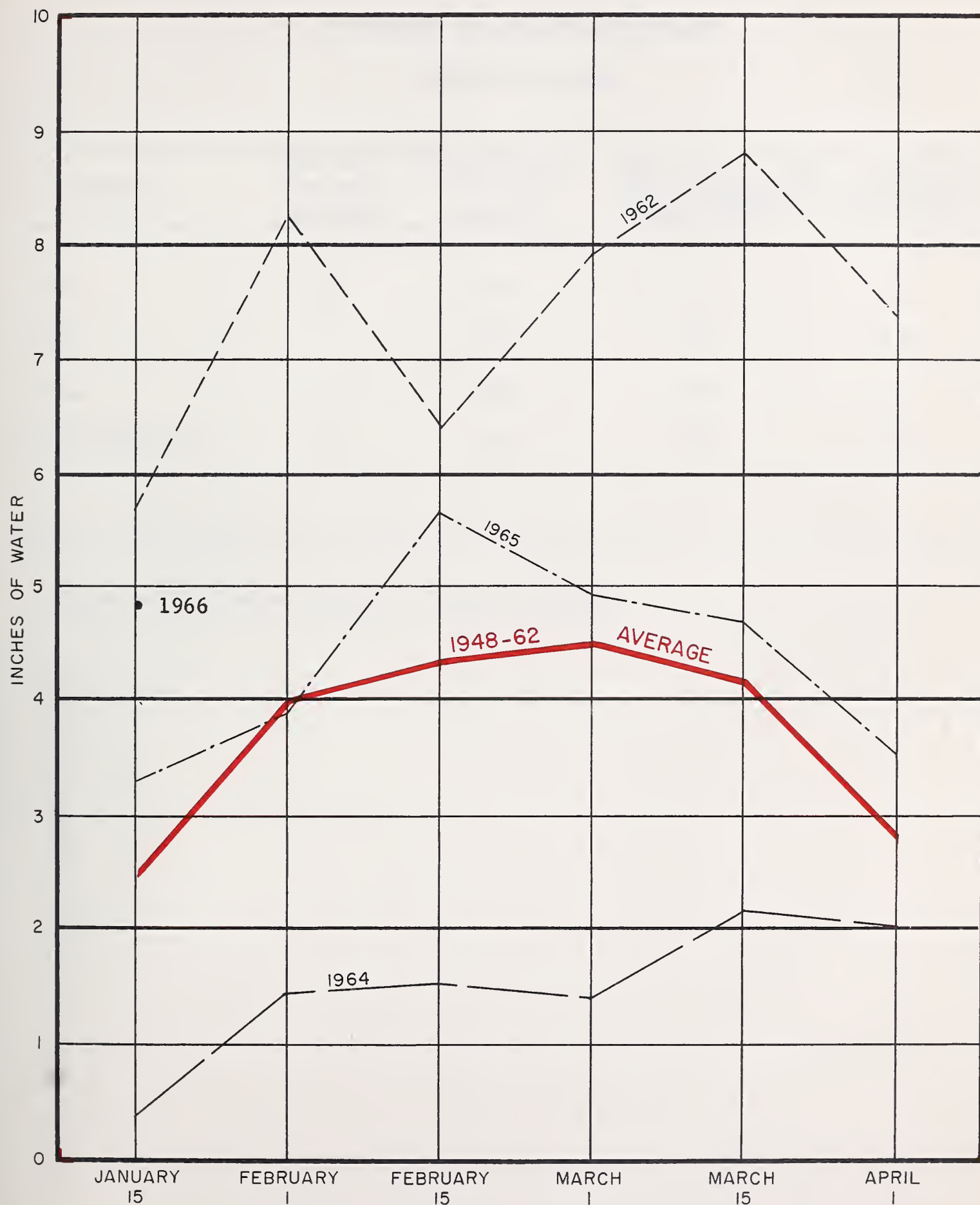
*Average is for less than 15 years of record in the 1948-62 period.

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RELATIVE SNOW WATER ACCUMULATION ARIZONA

JANUARY 15, 1966



This graph represents the average snow water content on eleven selected snow courses on Arizona Sub-Watersheds.

SNOW COVER ON ARIZONA WATERSHEDS

JANUARY 15, 1966

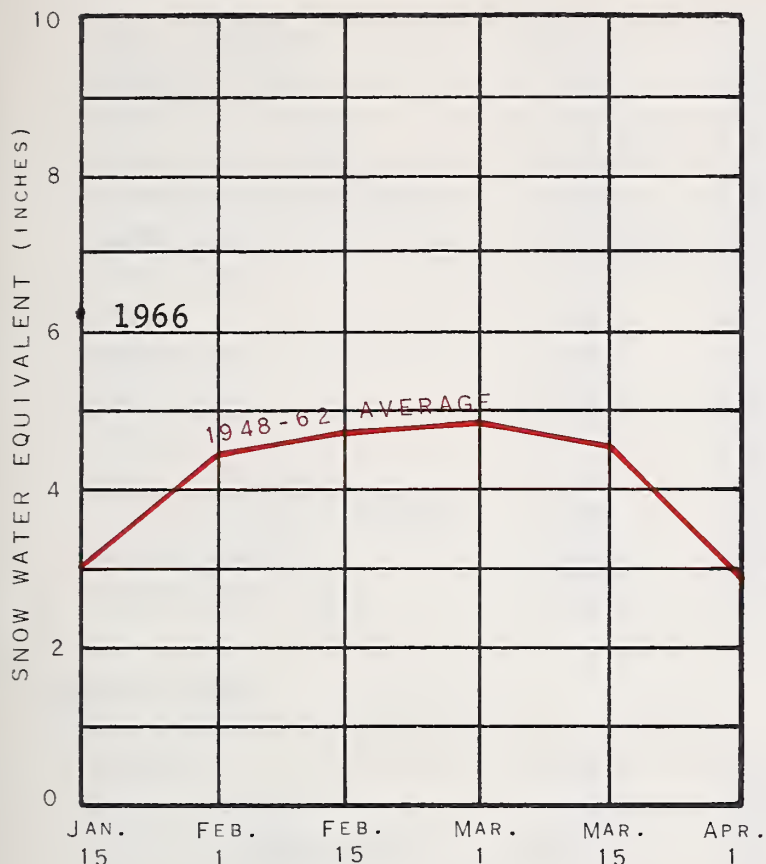
Watershed	No. of Courses Average	Water Content of Snow (Inches)	This Year's Water Content of Snow Expressed as Percent of:	
			Last Year	Average *
Gila	10	5.00	417	313
Salt	7	6.15	178	205
Verde	7	3.28	172	137
Little Colorado	4	5.95	134	198

* Actual or Estimated 1948-62, 15-year Average

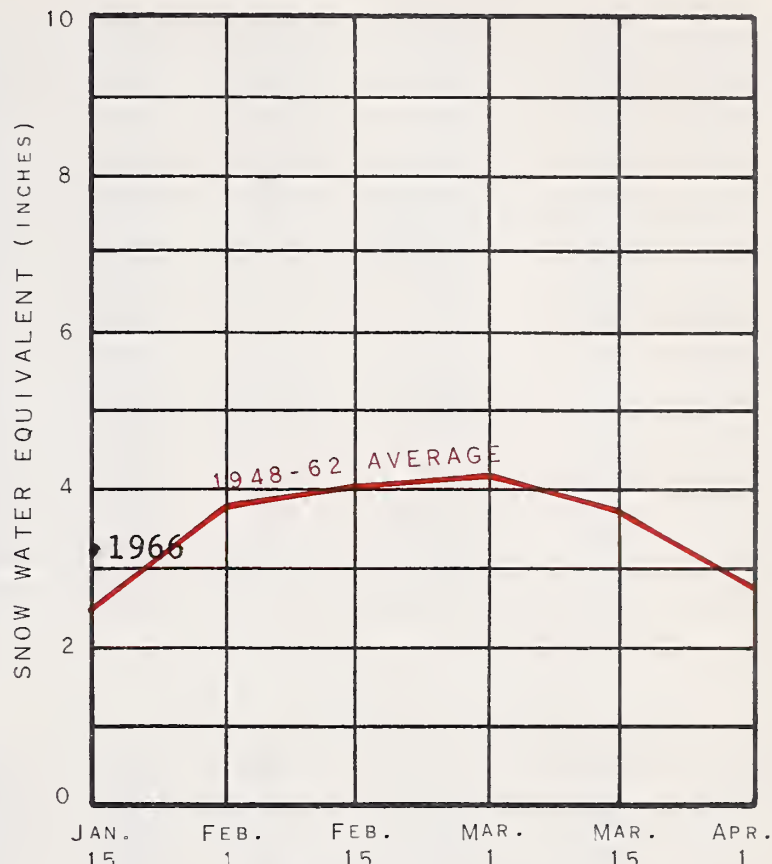
1966

ARIZONA SNOW COVER

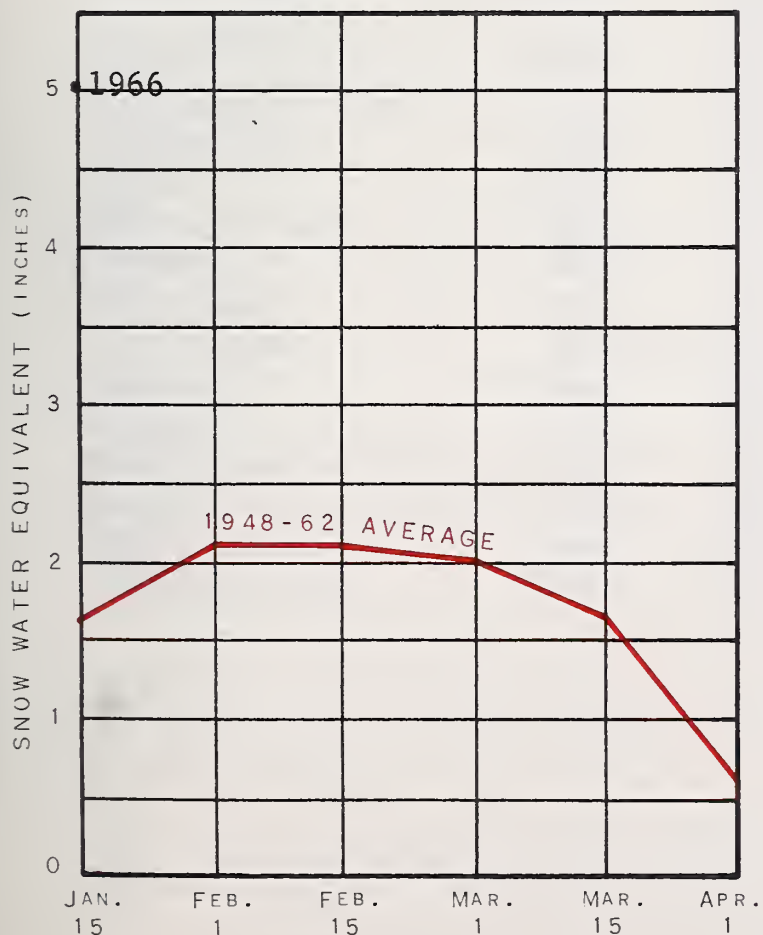
BY WATERSHEDS



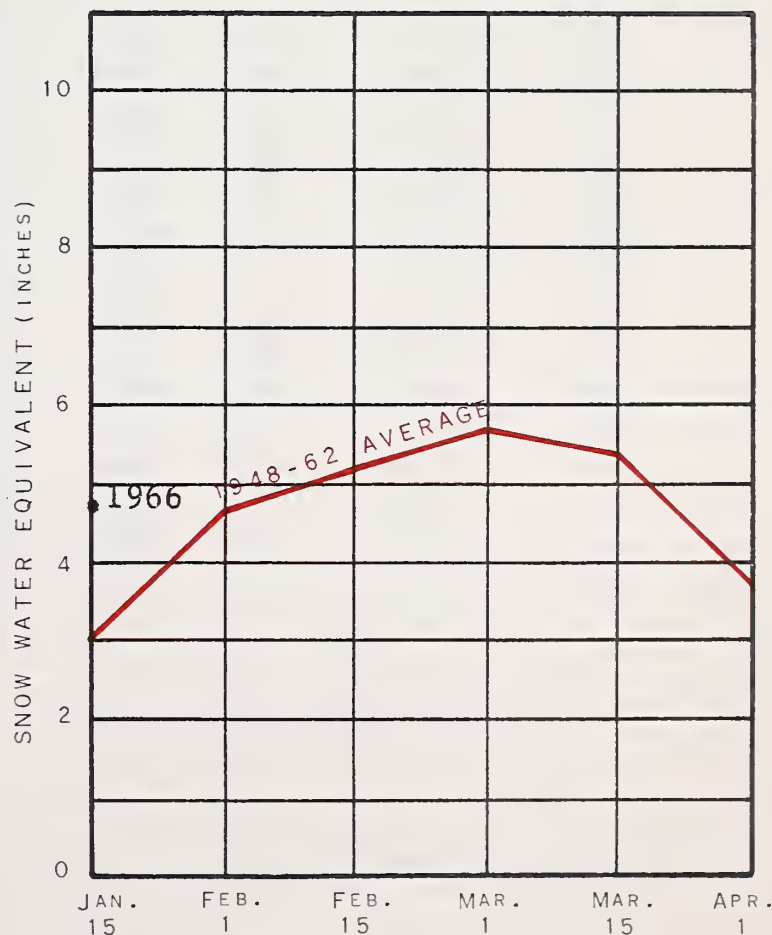
SALT RIVER



VERDE RIVER

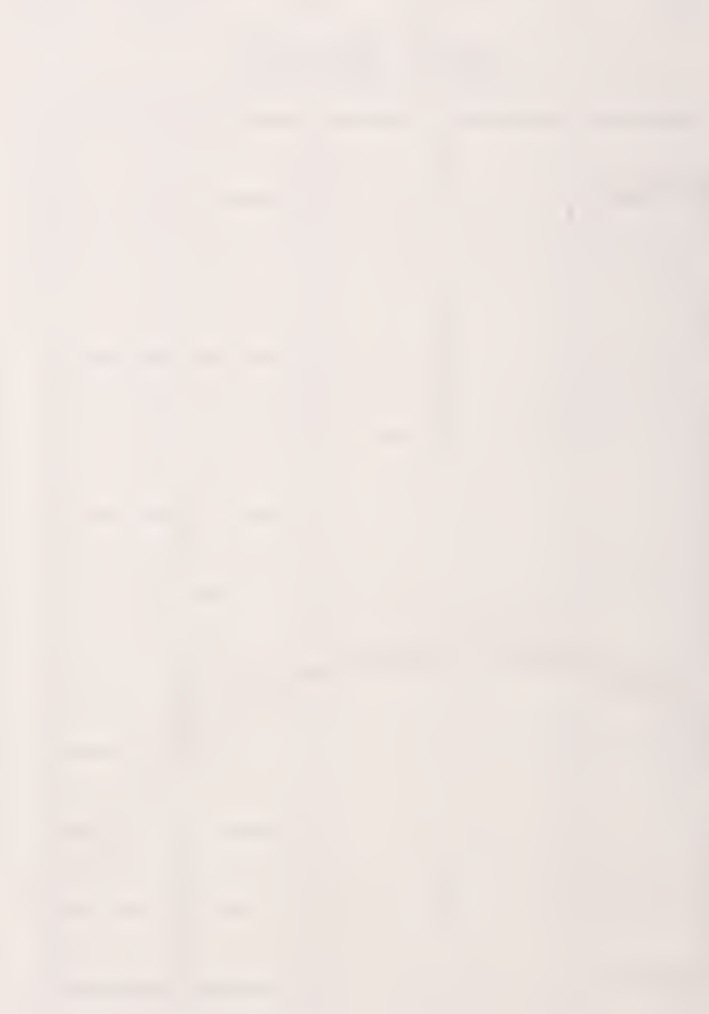


GILA RIVER



LITTLE COLORADO RIVER

BASED ON SELECTED SNOW SURVEY COURSES



SNOW ABOUT JANUARY 15, 1966

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
						LAST YEAR	AVERAGE ^a

GILA RIVER

Bear Wallow	10T1	8100	1/14	29	9.2	0.4	2.9
Beaver Head	9S6	8000	1/14	21	6.0	1.5	2.4
Coronado Trail	9S7	8000	1/14	22	6.5	2.1	2.2
Frisco Divide	8S1-M	8000	1/14	18	6.7	1.5	1.7
Hannagan Meadows *	9S11	9090	1/14	40	12.3	7.5	---
Hummingbird #2 (A)	8S10-A	10400	1/14	49	13.7	6.5	---
Ice King	8S6	8020	1/14	21	5.5	2.8	---
Inman	7S2	7800	1/13	7	1.8	0.0	0.5
Mogollon	8S2	7000	1/14	8	2.1	T	1.2 **
Nutrioso	9S4	8500	1/14	14	5.0	1.7	1.6
Redstone Trail	8S7	8600	1/14	27	8.2	4.1	---
Rose Canyon	10T2	7300	1/14	17	5.6	0.0	1.6
Silver Creek Divide	8S8	9000	1/14	35	11.2	5.8	---
State Line	9S8	8000	1/14	22	6.9	1.7	1.8
Whitewater (A)	8S9-A	10500	1/14	74	17.8	6.5	---

SALT RIVER

Baldy *	9S1	9125	1/14	30	8.7	8.0	4.0 **
Beaver Head	9S6	8000	1/14	21	6.0	1.5	2.4
Canyon Creek #2	10R7-M	7500	1/13	13	3.8	2.5	1.6 **
Coronado Trail	9S7	8000	1/14	22	6.5	2.1	2.2
Forest Dale	10R6	6430	1/14	0	0.0	0.0	0.7
Ft. Apache *	9R5	9160	1/14	29	7.6	8.1	4.5 **
Gentry	10R5	7600	1/13	14	4.6	1.8	1.7 **
Hannagan Meadows	9S11	9090	1/14	40	12.3	7.5	---
Hawley Lake	9R10	8300	1/14	16	5.1	---	---
Heber	10R4	7600	1/13	12	4.3	2.9	1.8 **
Maverick Fork	9S2	9050	1/14	37	12.4	9.8	5.7 **
McNary	9R2-M	7200	1/14	7	2.5	0.0	1.7
Milk Ranch	9R1	7000	1/14	2	1.0	0.0	1.0
Mt. Ord (A)	9R9-A	11000	1/8	88	18.5	---	---
Nutrioso *	9S4	8500	1/14	14	5.0	1.7	1.6
Pacheta	9S5	7800	1/14	22	7.4	0.0	2.9 **
Smith Cienega #1 (A)	9R7-A	9700	1/8	62	14.3	---	---
Smith Cienega #2 (A)	9R8-A	9900	1/8	65	15.0	---	---
Wilson Lake	9R6	9000	1/13	30	8.3	---	---
Workman Creek	10S1	6900	1/12	13	5.1	2.1	3.5 **

(a) 1948-62, 15 year period. (*) Adjacent drainage. (**) 1948-62 Adjusted Average. (A) Aerial observation: Water content estimated.

The first part of the book is devoted to a general introduction to the subject of the history of the English language. It deals with the various influences which have shaped the language, from the early Germanic roots to the modern English of today. The author discusses the role of the Norman Conquest, the influence of French and Latin, and the development of the language through the centuries. He also touches upon the influence of other languages, such as Old Norse and Old English, and the role of the Bible and the Church in the development of the language.

The second part of the book is a detailed study of the history of the English language from the early Germanic roots to the modern English of today. It deals with the various influences which have shaped the language, from the early Germanic roots to the modern English of today. The author discusses the role of the Norman Conquest, the influence of French and Latin, and the development of the language through the centuries. He also touches upon the influence of other languages, such as Old Norse and Old English, and the role of the Bible and the Church in the development of the language.

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SNOW ABOUT JANUARY 15, 1966

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^a
VERDE RIVER							
Baker Butte	11R6	7300	1/11	27	9.4	---	---
Camp Wood	12R1	5700	1/14	0	0.0	0.0	0.9
Casner Park	11R2-M	6930	1/12	5	2.3	1.3	2.3 **
Chalender	12P1-M	7100	1/14	12	3.4	2.1	2.3
Copper Basin Divide	12R6	6720	1/14	8	2.7	0.0	---
Fort Valley *	11P2	7350	1/14	9	2.6	0.3	1.7
Gaddes Canyon	12R4	7600	1/14	18	4.8	3.6	3.4 **
Happy Jack	11R5	7630	1/17	16	4.7	2.3	2.2 **
Iron Springs *	12R2	6200	1/14	0	0.0	0.0	1.4
Mingus Mountain	12R3	7100	1/14	T	T	0.0	0.9
Mormon Lake *	11R4	7350	1/12	10	3.2	1.8	2.3
Mormon Mountain	11R3-M	7500	1/12	12	4.3	3.3	3.3 **
Munds Park	11R1-M	6500	1/11	3	1.3	T	1.5 **
Newman Park	11P5-M	6750	1/11	4	2.0	T	---
Snow Bowl #1	11P4	10260	Report Delayed			---	---
Snow Bowl #2	11P6	11000	"	"		10.0	---
White Spar	12R5	6000	1/14	0	0.0	0.0	---
BILL WILLIAMS RIVER							
Camp Wood *	12R1	5700	1/14	0	0.0	0.0	0.9
Copper Basin Divide	12R6	6720	1/14	8	2.7	0.0	---
Iron Springs	12R2	6200	1/14	0	0.0	0.0	1.4
Willow Ranch	13P1	5000	1/14	0	0.0	0.0	1.0
LOWER COLORADO RIVER							
Bright Angel	12N1	8400	No Survey			---	5.4 **
Chalender *	12P1-M	7100	1/14	12	3.4	2.1	2.3
Fort Valley	11P2	7350	1/14	9	2.6	0.3	1.7
Grand Canyon	11P1	7500	1/14	3	1.0	1.0	1.7
LITTLE COLORADO RIVER							
Baldy	9S1	9125	1/14	30	8.7	8.0	4.0 **
Canyon Creek #2	10R7-M	7500	1/13	13	3.8	2.5	1.6 **
Forest Dale	10R6	6430	1/14	0	0.0	0.0	0.7
Ft. Apache	9R5	9160	1/14	29	7.6	8.1	4.5 **
Fort Valley	11P2	7350	1/14	9	2.6	0.3	1.7
Gentry	10R5	7600	1/13	14	4.6	1.8	1.7 **
Happy Jack *	11R5	7630	1/17	16	4.7	2.3	2.2 **
Heber	10R4	7600	1/13	12	4.3	2.9	1.8 **
McNary	9R2-M	7200	1/14	7	2.5	0.0	1.7
Mormon Lake	11R4	7350	1/12	10	3.2	1.8	2.3
Mormon Mountain	11R3-M	7500	1/12	12	4.3	3.3	3.3 **
Nutriso	9S4	8500	1/14	14	5.0	1.7	1.6
Snow Bowl #1	11P4	10260	Report Delayed			---	---
Snow Bowl #2	11P6	11000	"	"		10.0	---
Wilson Lake *	9R6	9000	1/13	30	8.3	---	---

(a) 1948-62, 15 year period. (*) Adjacent drainage. (**) 1948-62 Adjusted Average. (A) Aerial observation: Water content estimated.

PRECIPITATION

STORAGE GAGE DATA - ABOUT JANUARY 15, 1966

Drainage Basin and Storage Gage	Elev.	Current Data		1948-62	From Approx. 11/1 to Date		
		Date of Jan. 1-15	Reading Precip.	Av. Precip. Jan. 1-15	This Year	1948-62 Average	% of Average
<u>GILA RIVER</u>							
Silver Creek Divide	9000	1/14	.30#	---	19.79	---	---
Hannagan Meadows	9030	1/14	.21#	1.65*	14.31	6.86*	209
<u>SALT RIVER</u>							
Hannagan Meadows	9030	1/14	.21#	1.65*	14.31	6.86*	209
Little Wildcat (Heber Snow Course)	7600	1/13	.15#	2.03*	16.77	6.19*	271
Maverick Fork	9050	1/14	.17#	1.42*	14.96	5.46*	274
Workman Creek **	6970	1/12	.45	2.31	25.19	8.39	300
<u>VERDE RIVER</u>							
Baker Lake	7300	--	--	---	---	---	---
Copper Basin Divide	6720	1/14	.24#	---	16.00	---	---
Fort Valley **	7350	1/14	.25	1.23	9.99	4.08	245
Happy Jack **	7480	1/14	.15	1.71*	13.50	5.40*	250
Mingus Mountain	7660	1/14	.30#	1.49	11.98	4.39	273
Mormon Mountain	7500	1/12	.32#	---	18.92	---	---
<u>LITTLE COLORADO</u>							
Sheep Crossing (Baldy Snow Course)	9125	1/14	.14#	1.30*	12.27	4.92*	249
Little Wildcat (Heber Snow Course)	7600	1/13	.15#	2.03*	16.77	6.19*	271

** Data supplied by U. S. Forest Service

* 1948-62 Adjusted Average

Partially Estimated

PRECIPITATION AT SELECTED ARIZONA STATIONS ^{1/}

STATION	Precipitation (Inches)			
	December - 1965		Current Water-Year (Oct.1965 - Dec.1965)	
	Departure from		Departure from	
	Total	Average	Total	Average
Alpine	4.42	+3.15	6.74	<u>±</u> 2.94
Ash Fork	3.94	+2.76	6.89	+ 4.29
Clifton	7.00	+5.98	8.05	+ 5.59
Douglas Smelter	2.86	+2.19	2.86	+ 1.09
Flagstaff WBAS *	6.63	+4.98	11.87	+ 7.70
Payson Ranger Station	9.42	+7.52	12.44	+ 7.69
Phoenix WBAS	3.19	+2.34	4.31	+ 2.51
Prescott	6.96	+5.19	12.76	+ 8.69
Springerville	1.43	+ .94	2.05	+ .32
Tucson WBAS	5.02	+4.10	5.86	+ 3.68
Winslow WBAS	1.45	+ .93	1.91	+ .37
Yuma WBAS	1.67	+1.35	2.25	+ 1.43

^{1/} Data and Analysis furnished by Paul C. Kangieser,
Arizona State Climatologist, U.S. Weather Bureau,
Phoenix, Arizona

* WBAS = Weather Bureau Airport Station

ARIZONA SOIL MOISTURE - ABOUT JANUARY 15, 1966

Drainage Basin and Station	<u>1/</u> Station Number	Elev.	Soil Profile <u>in Inches</u>		Soil Moisture Content in Inches				
			Depth	Cap.	Date	1966	<u>Past Record</u>		Avg.
<u>GILA RIVER</u>									
Frisco Divide	8S1-M	8000	48	13.3	1/14	9.4	8.0	6.7	10.4
<u>SALT RIVER</u>									
Black River Divide	9S10-*	9100	48	16.8	1/14	16.6	17.8	16.0	13.8
Canyon Creek #2	10R7-M	7500	48	18.3	1/13	18.2	14.7	14.3	14.1
Corduroy Creek	10R8-*	6000	48	16.0	1/14	15.5	12.4	6.2	8.2
McNary	9R2-M	7200	48	16.3	1/13	17.5	17.9	13.2	14.2
<u>VERDE RIVER</u>									
Casner Park	11R2-M	6930	48	19.1	1/12	21.0	20.6	12.9	13.9
Mormon Mountain	11R3-M	7500	48	16.1	1/12	17.7	17.8	13.8	14.2

1/ * - Soil Moisture Station only.
M - Snow Course and Soil Moisture Station

LIST OF SNOW SURVEYORS

<u>SNOW COURSE</u>	<u>SURVEYOR</u>
Baker Butte -----	SCS and SRVWUA
Baldy -----	SCS and SRVWUA
Bear Wallow -----	Forest Service - Allan Hinds
Beaver Head -----	N. A. Josh
Bright Angel -----	National Park Service - Bob Peterson
Camp Wood -----	Lyn Pehl
Canyon Creek #2 -----	SCS and SRVWUA
Casner Park -----	SCS and SRVWUA
Chalender -----	Forest Service - Mel Richards
Copper Basin Divide -----	SCS - Bill Gray
Coronado Trail -----	Forest Service - Curtis Connolly
Forest Dale -----	Bureau of Indian Affairs - Raymond Endfield
Ft. Apache -----	SCS and SRVWUA
Fort Valley -----	Rocky Mountain Forest & Range Exp. Station
Frisco Divide -----	Forest Service - Joe Clayton
Gaddes Canyon -----	Paul G. Lidbeck
Gentry -----	SCS and SRVWUA
Grand Canyon -----	National Park Service - Larry Hakel
Hannagan Meadows -----	N. A. Josh
Happy Jack -----	Emil O. Ryberg
Hawley Lake -----	Bureau of Indian Affairs - Raymond Endfield
Heber -----	SCS and SRVWUA
Hummingbird #2 -----	Ray Freeman
Ice King -----	James R. Wray
Inman -----	C. H. McCauley
Iron Springs -----	SCS - Bill Gray
Maverick Fork -----	SCS and SRVWUA
McNary -----	Bureau of Indian Affairs - Raymond Endfield
Milk Ranch -----	Bureau of Indian Affairs - Raymond Endfield
Mingus Mountain -----	Paul G. Lidbeck
Mogollon -----	James R. Wray
Mormon Lake -----	SCS and SRVWUA
Mormon Mountain -----	SCS and SRVWUA
Mt. Ord -----	Jim Sparks
Munds Park -----	SCS and SRVWUA
Newman Park -----	SCS and SRVWUA
Nutrioso -----	Forest Service - Curtis Connolly
Pacheta -----	Foch Phillips
Redstone Trail -----	James R. Wray
Rose Canyon -----	Forest Service - Allan Hinds
Silver Creek Divide -----	James R. Wray
Smith Cienega #1 -----	Jim Sparks
Smith Cienega #2 -----	Jim Sparks
Snow Bowl #1 -----	Forest Service - Richard Nielsen
Snow Bowl #2 -----	Forest Service - Richard Nielsen
State Line -----	Forest Service - Joe Clayton
White Spar -----	SCS - Bill Gray
Whitewater -----	Ray Freeman
Willow Ranch -----	Tiny Miller
Wilson Lake -----	SCS and SRVWUA
Workman Creek -----	Rocky Mountain Forest & Range Exp. Station

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The Following Organizations Cooperate in the Arizona Snow Survey Work

FEDERAL

Department of Agriculture

Soil Conservation Service

Forest Service

Apache Forest

Coconino Forest

Coronado Forest

Gila Forest

Kaibab Forest

Prescott Forest

Rocky Mountain Forest and Range Experiment Station

Tonto Forest

Department of Commerce

Weather Bureau

Arizona Section

Department of Interior

Bureau of Reclamation

Region III

Geological Survey

Arizona District

Bureau of Indian Affairs

Fort Apache Reservation

San Carlos Irrigation Project

National Park Service

Grand Canyon National Park

Gila Water Commissioner

Safford, Arizona

STATE

Arizona Agricultural Experiment Station

IRRIGATION PROJECTS

Salt River Valley Water Users' Association

Phoenix, Arizona

San Carlos Irrigation and Drainage District

Coolidge, Arizona

PRIVATE

Southwest Forest Industries, Inc.

McNary, Arizona

Other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.

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